Family Finder matches (males shaded blue, females	ADAMTHWAITE ORANGE line 1														
ADAMTHWAITE VIOLET line	7th cousins 2 shared matches >8 generations to MRCA largest segment 3.3cM total >3cM = 9.4cM X-DNA 5.7cM / 8.3cM	ADAMTHWAITE VIOLET line													
ADAMTHWAITE OLIVE line 2	3 shared matches >8 generations to MRCA largest segment 3.9cM total >3cM = 7.1cM X-DNA 5.4cM/11.5 cM	3 shared matches >8 generations to MRCA largest segment 5.2cM total >3cM = 27.6cM X-DNA 6.0cM /14.1 cM	ADAMTHWAITE OLIVE line 2												
ADAMTHWAITE OLIVE line 1	2 shared matches >8 generations to MRCA largest segment 4.2cM total >3cM = 13.7cM X-DNA 6.6cM / 15.4 cM	5 shared matches >8 generations to MRCA largest segment 4.0cM total >3cM = 14.5cM X-DNA 9.5cM / 18.7cM	4th cousins 6 shared matches 3.4 generations to MRCA largest segment 33.7cM total >3cM = 137.0cM X-DNA 7.1cM / 16.4 cM	ADAMTHWAITE OLIVE line 1											
ADAMTHWAITE BLUE line	2 shared matches >8 generations to MRCA largest segment 4.6cM total>3cM = 26cM X-DNA 4.9cM / 6 cM	3 shared matches >8 generations to MRCA largest segment 3.7cM total >3cm = 10.5cM X-DNA 6.6cM / 19.0 cM	3 shared matches >8 generations to MRCA largest segment 3.4cM total >3cM = 13.1cM X-DNA 4.8cM / 12 cM	3 shared matches >8 generations to MRCA largest segment 4.4cM total > 3cm = 7.5cM X-DNA 5.7 cM / 17.7 cM	ADAMTHWAITE BLUE line										
ADAMTHWAITE TURQUOISE line	>8 generations to MRCA largest segment 6.3cM total >3cM = 21.3cM X-DNA 5.7 cM / 13.5cM	5 shared matches >8 generations to MRCA largest segment 4.2cM total >3cM = 17.6cM X-DNA 6.1cM / 12.3 cM	3 shared matches >8 generations to MRCA largest segment 3.8cM total >3cM = 21.5cM X-DNA 4.7 cm / 9.5cM	2 shared matches >8 generations to MRCA largest segment 5.0cM total >3cm = 21.2cM X-DNA 6.6 / 16.6 cM	>8 generations to MRCA largest segment 3.6cM total >3cM = 13.7cM X-DNA 7.6cM /13.8 cM	ADAMTHWAITE TURQUOISE line									
ADAMTHWAITE PINK line	2 shared matches >8 generations to MRCA largest segment 4.4cM total >3cM = 25.2cM X-DNA 4.7cM / 14.6 cM	1 shared match >8 generations to MRCA largest segment 4.8cM total >3cM = 26.6cM X-DNA 6.1cM / 19.9 cM	6th cousins 5 shared matches >8 generations to MRCA largest segment 6.2cM total >3cM = 22.1cM X-DNA 5.2cM / 17.8cM	6th cousins 8 shared matches 4.6 generations toMRCA largest segment 23.6cM total >3cM = 44.4 cM X-DNA 7.9cM / 13 cM	1 shared matches 7.5 generations to MRCA largest segment 7.3 cM total >3cM = 38.2 cM X-DNA 6.8cM / 14.5 cM	1 shared match >8 generations to MRCA largest segment 3.6cM total >3cM = 16.8 cM X-DNA 5.2cM / 9.7 cM	ADAMTHWAITE PINK line							
ADAMTHWAITE ORANGE line 2	3rd cousins once removed 4.0 generations to MRCA largest segment 15.8cM total >3cM = 70.1cM X-DNA 6.2cM / 9.0 cM	7th cousins once removed >8 generations to MRCA largest segment 5.1cM total > 3cM = 13.1cM X-DNA 4.9cM / 14.2 cM	>8 generations to MRCA largest segment 4.8cM total >3cM = 25.1 cM X-DNA 8.0cM / 15.3 cM	4 shared matches >8 generations to MRCA largest segment 3.8cM total > 3cM = 10.7cM X-DNA 4.0 cM / 9.0 cM	>8 generations to MRCA largest segment 4.5cM total >3cM = 17.1 cM X-DNA 7.4 cM / 15.3 cM	>8 generations to MRCA largest segment 3.5cM total >3cM = 6.9 cM X-DNA 7.7 cM / 11.5 cM	>8 generations to MRCA largest segment 4.3cM total > 3cM = 18.1 cM X-DNA 7.0 cM / 23.4 cM	ADAMTHWAITE ORANGE line 2						
ADAMTHWAITE OLIVE line 3	1 shared matches >8 generations to MRCA largest segment 4.8cM total >3cM = 27.1cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 4.1cM total >3cM = 13.9cM X-DNA nil	5th cousins once removed 6 shared matches 4.9 generations to MRCA largest segment 17.2cM total >3cM = 44.6cM X-DNA nil	5th cousins once removed parent/child very many shared matches 1 gen to MRCA largest segment 169.2cM total >3cM = 3565cM X-DNA 57.9cM / 136.5 cM	2 shared matches >8 generations to MRCA largest segment 4.2cM total >3cM = 17.7cM X-DNA nil	1 shared match >8 generations to MRCA largest segment 4.5cM total >3cM 11.5cM X-DNA nil	7th cousins once removed 6 shared matches >8 generations to MRCA largest segment 4.3cM total >3cM = 31 cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 3.7cM total >3cM = 7.0cM X-DNA nil	ADAMTHWAITE OLIVE line 3						
ADAMTHWAITE GREY line	1 shared match >8 generations to MRCA largest segment 4.6cM total >3cM = 29.7cM X-DNA nil	1 shared match 6.8 generations to MRCA largest segment 8.5cM total >3cM = 26.1cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 4.1cM total >3cM = 7.2cM X-DNA nil	4 shared matches >8 generations to MRCA largest segment 3.9cM total >3cM = 13.8cM X-DNA 3.6cM / 3.6cM	1 shared matches >8 generations to MRCA largest segment 4.8cM total >3cM = 28.4cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 4.5cM total >3cM = 20.8cM X-DNA 3.2 cM / 3.2 cM	2 shared matches >8 generations to MRCA largest segment 6.1cM total >3cM = 13.7cM X-DNA nil	1 shared match >8 generations to MRCA largest segment 5.1cM total >3cM = 18.5cM X-DNA nil	5 shared matcheses >8 generations to MRCA largest segment 4.0cM total >3cM = 14.6cM X-DNA nil	ADAMTHWAITE GREY line						
ADAMTHWAITE YELLOW line	>8 generations to MRCA largest segment 4.8cM total >3cM=17.4cM X-DNA nil	1 shared match >8 generations to MRCA largest segment 4.7cM total >3cM=36.1cM X-DNA nil	2 shared matches > 8 generations to MRCA largest segment 3.3cM total >3cM=6.4cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 3.7cM total >3cM=20 cM X-DNA nil	distant cousins (from yDNA) >8 generations to MRCA largest segment 5.2cM total >3cM=29 cM X-DNA nil	>8 generations to MRCA largest segment 3.2cM total >3cM=3.2cM X-DNA nil	4 shared matches >8 generations to MRCA largest segment 4.5cM total >3cM=12cM X-DNA nil	>8 generations to MRCA largest segment 3.3cM total >3cM=9.7cM X-DNA nil	1 shared match >8 generations to MRCA largest segment 5.6cM total >3cM=27.8cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 3.3cM total >3cM=6.5cM X-DNA nil	ADAMTHWAITE YELLOW line						
ADAMTHWAITE TEAL line *(gedmatch data pending)*	1 shared matches >8 generations to MRCA largest segment 4.7cM total >3cM=15.4cM X-DNA nil	3 shared match >8 generations to MRCA largest segment 3.8cM total >3cM=9.9cM X-DNA 3.2 / 2.4	6 shared matches >8 generations to MRCA largest segment 4.5cM total >3cM=18.0cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 6.3cM total >3cM=35.2cM X-DNA nil	distant cousins (from yDNA) 1 shared matches >8 generations to MRCA largest segment 5.9 cM total >3cM=38.2cM X-DNA 3.3 / 7.2	5 shared matches >8 generations to MRCA largest segment 3.4 cM total >3cM=16.5cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 5.8cM total >3cM=30.9cM X-DNA 3.1 / 2.3	>8 generations to MRCA largest segment 4.2 cM total >3cM=18.8cM X-DNA nil	>8 generations to MRCA largest segment 6.5 cM total >3cM=20.4cM X-DNA nil	>8 generations to MRCA largest segment 4.0 cM total >3cM=14.2cM X-DNA nil	distant cousins (from yDNA) 1 shared matches >8 generations to MRCA largest segment 3.3 cM total >3cM=15.9cM X-DNA nil	ADAMTHWAITE TEAL line					
ADAMTHWAITE/ BUCK line 1	2 shared matches >8 generations to MRCA largest segment 5.1 cM total >3cM=22.8cM X-DNA 6.4cM / 10.6 cM	12 shared matches >8 generations to MRCA largest segment t5.1 cM total >3cM=24cM X-DNA 6.7cM / 9.1cM	10 shared matches >8 generations to MRCA largest segment 3.5 cM total >3cM= 13.2cM X-DNA 7.4cM / 21.9 cM	3 shared matches >8 generations to MRCA largest segment 4.4 cM total >3cM=18.8cM X-DNA 5.8cM / 11.4 cM	4 shared matches >8 generations to MRCA largest segment 3.4cM total >3cM=3.4cM X-DNA 6.8cM / 18.2cM	4 shared matches >8 generations to MRCA largest segment 3.6cM total >3cM=16.5cM X-DNA 6.8cM / 20.0cM	3 shared matches >8 generations to MRCA largest segment 5.9 cM total >3cM= 28.2cM X-DNA 7.3cM / 25.9cM	1 shared match >8 generations to MRCA largest segment 6cM total >3cM= 16.4cM X-DNA 6.6cM / 19.3cM	6 shared matches >8 generations to MRCA largest segment 3.8cM total >3cM= 17.5cM X-DNA 5.0cM / 6.4cM	4 shared matches >8 generations to MRCA largest segment 5.5 cM total >3cM=30cM X-DNA nil	>8 generations to MRCA largest segment 4cM total >3cM= 27.8cM X-DNA nil	8 shared matches >8 generations to MRCA largest segment 4.9cM total >3CcM = 12.9cM X-DNA 3.2 / 2.4	ADAMTHWAITE/ BUCK line 1				
ADAMTHWAITE/ BUCK line 2	1 shared matches >8 generations to MRCA largest segment 5.4 cM total >3cM=17.7 cM X-DNA nil	1 shared matches >8 generations to MRCA largest segment 4.8cM total >3cM=30.8cM X-DNA nil	>8 generations to MRCA largest segment 4.0cM total >3cM=7.5cM X-DNA 3.3/2.5	1 shared matches >8 generations to MRCA largest segment 3.6cM total >3cM=13.0cM X-DNA nil	1 shared matches >8 generations to MRCA largest segment 5.4cM total >3cM=23.4cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 3.9 cM total >3cM=7.8cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 4.2cM total >3cM=11.6cM X-DNA nil	>8 generations to MRCA largest segment 4.5cM total >3cM=17.8cM X-DNA nil	>8 generations to MRCA largest segment 4.4cM total >3cM=28.2cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 4.6cM total >3cM=12.9cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 3.9cM total >3cM=17.6cM X-DNA nil	1 shared matches >8 generations to MRCA largest segment 4.4 cM total >3cM= 20.1 cM X-DNA nil	Half 4th cousins 1 removed 4 shared matches >8 generations to MRCA largest segment 6.0cM total >3cM=30.3cM X-DNA 3.5/2.6	ADAMTHWAITE/ BUCK line 2				
SWINBANK line	4 shared matches >8 generations to MRCA largest segment 4.1 cM total >3cM= 10.7 cM X-DNA nil	4 shared matches >8 generations to MRCA largest segment 5.3 cM total >3cM= 19.1 cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 5.7 cM total >3cM= 34.4 cM X-DNA nil	7 shared matches >8 generations to MRCA largest segment 4.1 cM total >3cM= 10.5 cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 3.8 cM total >3cM= 10.2 cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 4.4 cM total >3cM= 28.7 cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 4.1 cM total >3cM= 18.3 cM X-DNA nil	>8 generations to MRCA largest segment 5.7 cM total >3cM= 16.2 cM X-DNA 3.1/2.3	1 shared matches >8 generations to MRCA largest segment 3.5 cM total >3cM= 12.8 cM X-DNA nil	5 shared matches >8 generations to MRCA largest segment 4.2 cM total >3cM= 13.9 cM X-DNA nil	1 shared matches >8 generations to MRCA largest segment 6.1 cM total >3cM= 17.0 cM X-DNA nil	1 shared matches >8 generations to MRCA largest segment 4.4 cM total >3cM= 12.1 cM X-DNA nil	9 shared matches >8 generations to MRCA largest segment 3.9 cM total >3cM= 17.1 cM X-DNA nil	4 shared matches >8 generations to MRCA largest segment 4.5 cM total >3cM= 22.0 cM X-DNA nil	SWINBANK line				
ADAMTHWAITE OLIVE line 4	>8 generations to MRCA largest segment 4.3cM total >3cM= 8.3 cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 4.0 cM total >3cM= 13.5 cM X-DNA 3.9/2.9	4th cousins 6 shared matches 3.9 generations to MRCA 13.8 largest segment cM total >3cM= 66.7 cM X-DNA nil	1st cousins very many shared matches 2.3 generations to MRCA largest segment 88.3 cM total >3cM= 816.1 cM X-DNA nil	1 shared matches >8 generations to MRCA largest segment 4.6 cM total >3cM= 22.1 cM X-DNA 3.4/2.6	>8 generations to MRCA largest segment 5.6 cM total >3cM= 25.3 cM X-DNA nil	7th cousins once removed 4 shared matches >8 generations to MRCA largest segment 3.0 cM total >3cM= 3.0 cM X-DNA 4.2/3.2	2 shared matches >8 generations to MRCA largest segment 4.4 cM total >3cM= 24.8 cM X-DNA 4.4/5.8	1st cousins once removed many shared matches 2.9 generations to MRCA largest segment 41.1 cM total >3cM= 240.5 cM X-DNA nil	>8 generations to MRCA largest segment 3.5 cM total >3cM= 16.2 cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 5.8 cM total >3cM= 20.1 cM X-DNA nil	1 shared matches >8 generations to MRCA largest segment 3.6 cM total >3cM= 17.3 cM X-DNA nil	13 shared matches >8 generations to MRCA largest segment 3.9 cM total >3cM= 21.3 cM X-DNA nil	4 shared matches >8 generations to MRCA largest segment 4.1 cM total >3cM= 28.1 cM X-DNA nil	>8 generations to MRCA largest segment 5.4 cM total >3cM= 34.6 cM X-DNA nil	ADAMTHWAITE OLIVE line 4				
FAWCETT line	1 shared matches >8 generations to MRCA largest segment 3.8 cM total >3cM= 6.8 cM X-DNA nil	no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA nil	3 shared matches >8 generations to MRCA largest segment 3.9 cM total >3cM= 3.9 cM X-DNA nil	4 shared matches no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA nil	no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA nil	4 shared matches >8 generations to MRCA largest segment 5.0 cM total >3cM= 16.2 cM X-DNA nil	3 shared matches no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA nil	no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA nil	3 shared matches no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 3.8 cM total >3cM= 7.5 cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 3.4 cM total >3cM= 3.4 cM X-DNA nil	no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA nil	5 shared matches >8 generations to MRCA largest segment 3.8 cM total >3cM= 3.8 cM X-DNA nil	4 shared matches >8 generations to MRCA largest segment 3.1 cM total >3cM= 3.1 cM X-DNA nil	1 shared matches >8 generations to MRCA largest segment 3.5 cM total >3cM= 3.5 cM X-DNA nil	2 shared matches >8 generations to MRCA largest segment 4.3 cM total >3cM= 7.4 cM X-DNA nil	FAWCETT line		
METCALFE line	2 shared matches >8 generations to MRCA largest segment 3.8 cM total >3cM= 7.5 cM X-DNA	6 shared matches no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA	10 shared matches >8 generations to MRCA largest segment 4.2 cM total >3cM= 7.3 cM X-DNA	3 shared matches >8 generations to MRCA largest segment 4.3 cM total >3cM= 4.3 cM X-DNA	3 shared matches no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA	3 shared matches >8 generations to MRCA largest segment 3.9 cM total >3cM= 7.6 cM X-DNA	5 shared matches >8 generations to MRCA largest segment 6.2 cM total >3cM= 17.2 cM X-DNA	>8 generations to MRCA largest segment 4.8 cM total >3cM= 8.3 cM X-DNA	2 shared matches >8 generations to MRCA largest segment 4.2 cM total >3cM= 8.1 cM X-DNA	6 shared matches 7.5 generations to MRCA largest segment 7.3 cM total >3cM= 12.9 cM X-DNA	1 shared matches >8 generations to MRCA largest segment 3.4 cM total >3cM= 6.6 cM X-DNA	3 shared matches >8 generations to MRCA largest segment 3.5 cM total >3cM= 3.5 cM X-DNA	11 shared matches >8 generations to MRCA largest segment 4.6 cM total >3cM= 19.2 cM X-DNA	3 shared matches >8 generations to MRCA largest segment 3 cM total >3cM= 3 cM X-DNA	5 shared matches >8 generations to MRCA largest segment 4.8 cM total >3cM= 19 cM X-DNA	2 shared matches >8 generations to MRCA largest segment 4.1 cM total >3cM= 7.8 cM X-DNA	6 shared matches no evident common ancestry largest segment 0 cM total >3cM= 0 cM X-DNA	METCALFE line

IMPORTANT NOTES: the KNOWN or SUSPECTED relationships between the individuals on this chart from written records are
•OLIVE line 3 is the son of OLIVE line 1, and OLIVE line is a 1st cousin to OLIVE line 1
•OLIVE lines 1,2 and 4 are third cousins
•PINK line is a 6th cousin of OLIVE line 1, 2 and 4, but as a result of an unusually large shared segment of DNA showed up as a predicted 3rd cousin to OLIVE line 1 on Family Tree DNA's match list (but no other OLIVE line descendants inherited any of this particular segment)
•VIOLET line is a 7th cousin to ORANGE line 1 and a 7th cousin once removed to ORANGE line 2
•BLUE, YELLOW and TEAL lines are known to share a common ancestor (from yDNA results)
•ADAMTHWAITE/BUCK line is thought to have the same origins as the VIOLET and ORANGE lines (our two testers from this line are half 4th cousins once removed - they would probably be about 8th cousins to the VIOLET and ORANGE line testers)

We have no written records connecting the SWINBANK, FAWCETT or METCALFE testers to any of the ADAMTHWAITE testers.

However, given the fact that we all have known ancestry originating in and around Ravenstonedale and nearby Sedbergh, there is every likelihood that there are other, as yet unidentified, connections either through the females in our lines, or perhaps through undocumented illegitimacies

We must remember that our DNA represents not just our more recent known ancestors but also our deep ancestry. Most of our group have a substantial proportion of our ancestry originating in the same small corner of England (in my own case, I know that a quarter of all my ancestors came from an area within five miles of Ravenstonedale) so it is perhaps not so surprising to discover the level of matching shown on the matrix.

It should also be remembered that although it is possible to predict roughly HOW MUCH DNA we have inherited from, say, one of our gt grandparents - the actual SEGMENTS of DNA that are passed on from parent to child are totally random - only identical twins will have a 100% match! So the more distant the known relationship, the less likely it will be that two people will inherit identical segments of DNA.

A majority of our testers were female (males and females are colour-coded blue and pink!) This has an impact on the amount of shared X-DNA, which has an unusual inheritance pattern.

KEY to Abbreviations and terms used in matrix:
Known Relationships: these are shaded in lilac, with the deepest shading used for the closest relationships
Shared Matches: the number of shared matches (i.e. other unknown individuals in the Family Finder database who match each pair of individuals in this chart)are shown in red. Although potentially useful contacts, the NUMBER of shared matches between any pair of individuals depends more on how prolific particular branches of ancestry were (especially if distant cousins migrated to America!) more than to the closeness of the connection between that pair.
Generations to MRCA: this is the estimated number of generations back to this pair's Most Recent Common Ancestor
Largest Segment: the largest identical segment of chromosome that is shared between this pair of testers - measured in centiMorgans
Total Shared Segments >3cM: when the analysis was performed, only matching segments greater than 3 centiMorgans were counted. Generally when looking at two people who are more closely related, the analysis would only consider segments greater than 5 or 7 centiMorgans - but we know that apart from the four OLIVE line group members, any connections between us are likely to be at least 7 generations ago.
X-DNA: the first figure is the largest shared segment, the second is the total of segments >3cM (adjusted for gender of testers). However, all X-DNA segments of less than 5cM should probably be ignored altogether.

Data sources:
Degrees of relationship (entered in blue) are calculated by Family Tree DNA for these pairs of testers
Estimated no. of generations to MRCA, segment size and X-DNA info are all calculated by Gedmatch.com using the raw autosomal and X-DNA data downloaded from Family Tree DNA. Gedmatch allows direct comparison between kits, even when they do not appear as direct matches on the Family Tree DNA results lists.